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	INFORMATION	DIS	CLOSURE	Application Number	10/603,249
				Filing Date	June 25, 2003
	OSTATEMENT BY APPLICANT		PLICANI	First Named Inventor	Van der Ploeg, Leonardus, H.T.
æ	19NO 5		,	Group Art Unit	1632
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			U.S. PA	TENT DOCUMENTS	
Examiner Initials*	Cite No.	U.S. Patent Document Number	Kind Code (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
AMF	Α	US 5,622,860	T	TADATAKA YAMADA, ET AL.	04/22/1997
1	В	US 5,703,220		TADATAKA YAMADA, ET AL.	12/30/1997
	С	US 5,908,609		LEE, ET AL.	06/01/1999
W	D	US 5,932,779		LEE, ET AL.	08/03/1999
AMF	E	US 5,837,521		CONE, ET AL.	11/17/1998
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				FOREIGN	I PA'	TEN'I	DOCUMENTS			
Examiner Initials*	Cite No.	Foreign Patent Document Office Number				Kind Code	Name of Patentee of Cited Docu			Date of Publication of Cited Document MM-DD-YYYY
AMF	F	wo	02/03793		(if	known)	DELTAGEN, INC.			01/17/2002
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^{*}Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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		NON PATENT LITERATURE DOCUMENTS
Examiner Initials*	Cite No.	Include name of the author, title, date, page(s), volume-issue number(s) and place of publication.
AMF	G	DESARNAUD, ET AL.,"Molecular cloning, functional expression and pharmacological characterization of a mouse melanocortin receptor gene", Biochem. Journal, Vol. 299, No. 2, pages 367-373, 1994.
	Н	ROSELLI-REHFUSS, ET AL., "Identification of a receptor for melanotropin and other proopiomelanocortin peptides in the hypothalamus and limbic system", Proc. Natl. Acad. Sci., Vol. 90, pages 8856-8860, 1993.
	I	GANTZ, ET AL., "Molecular Cloning of a Novel Melanocortin Receptor", J. Biol. Chem., Vol. 268, No. 11, pages 8246-8250, 1993.
	J	MOUNTJOY, ET AL., "Localization of the Melanocortin-4 Receptor (MC4-R) in Neuroendocrine and Autonomic Control Circuits in the Brain", Molecular Endocrinology, Vol. 8, No. 10, pages 1298-1308, 1994.
	K	TYBULEWICZ, VICTOR L.J., ET AL., "Neonatal Lethality and Lymphopenia in Mice with a Homozygous Disruption of the c-abl Proto-Oncogene", Cell, Vol. 65, pages 1153-1163, 1991:
	L	HAYNES, ET AL., "Interactions Between the Melanocortin System and Leptin in Control of Sympathetic Nerve Traffic", Hypertension, Vol. 33, Part II, pages 542-547, 1999.
	М	DINULESCU, ET AL., "Mahogany (mg) stimulates feeding and increases basal metabolic rate independent of its suppression of agouti", Proc. Natl. Acad. Sci., Vol. 95, pages 12707-12712, 1998.
	N	GIROS, ET AL., "Hyperlocomotion and indifference to cocaine and amphetamine in mice lacking the dopamine transporter", Nature, Vol. 379, pages 606-612, 1996.
	0	CONE, ET AL., "The Melanocortin Receptors: Agonists, Antagonists, and the Hormonal Control of Pigmentation", Recent Progress in Hormone Reasearch, Vol. 51, pages 287-318, 1996.
	P	BOSTON, ET AL., "Independent and Additive Effects of Central POMC and Leptin Pathways on Murine Obesity", Science, Vol 278, pages 1641-1644, 1997.
	Q	CHEN, ET AL., "Altered Expression of Agouti-Related Protein and Its Colocalization with Neuropeptide Y in the Arcuate Nucleus of the Hypothalamus during Lactation", Endocrinology, Vol. 140, pages 2645-2650, 1999.
	R	CUNNINGHAM, ET AL., "Leptin's Actions on the Reproductive Axis: Perspectives and Mechanisms", Biology of Reproduction, Vol. 60, pages 216-222, 1999.
	s	ELIAS, ET Al., "Leptin Activates Hypothalamic CART Neurons projecting to the Spinal Cord", Neuron, Vol. 21, pages 1375-1385, 1998.
V	Т	FAN, ET AL., "Role of melanocortinergic neurons in feeding and the agouti obesity syndrome", Nature, Vol. 385, pages 165-168, 1997.
AMF	U	FONG, ET AL., "ART (Protein Product of Agouti-Related Transcript) as an Antagonist of MC-3 and MC-4 Receptors", Biochemical and Biophysical Research Communications, Vol. 237, pages 629-631, 1997.

Examiner Signature	/Anne Marie Falk/	Date Considered	06/26/2006

				THE HE THERE OF COMPANIES OF COMMERCE			
s	ibstitute for form 14498/PTO			COMPLETE IF KNOWN			
I	NFORMATION	DIS	CLOSURE	Application Number	10/603,249		
6	TATEMENT BY	AID	DI ICANT	Filing Date	June 25, 2003		
3	TATEMENT DI	AI	PLICANI	First Named Inventor	Van der Ploeg, Leonardus, H.T.		
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Sheet	. 3	of	5	Attorney Docket Number	20561YDA		

L_	NON PATENT LITERATURE DOCUMENTS								
Examiner Initials*		Cite No.	Include name of the author, title, date, page(s), volume-issue number(s) and place of publication.						
Al	MF	v	FINN, ET AL., "The Stimulatory Effect of Leptin on the Neuroendocrine Reproductive Axis of the Monkey", Endocrinology, Vol. 139, No. 11, pages 4652-4662, 1998.						
		w	GUAN, ET AL., "Evidence of altered hypothalamic pro-opiomelanocortin/neuropeptide Y mRNA expression in tubby mice", Molecular Brain Research, Vol. 59, pages 273-279, 1998.						
			GUNN, ET AL., "The mouse <i>mahogany</i> locus encodes a transmembrane form of human attractin", Nature, Vol. 398, pages 152-156, 1999.						
		Y	HADLEY, ET AL., "Discovery and Development of Novel Melanogenic Drugs", Pharmaceutical Biotechnology, Chapter 25, pages 575-595, 1998.						
		z	HAHN, ET AL., "Coexpression of Agrp and NPY in fasting-activated hypothalamic neurons", Nature Neuroscience, Vol. 1, No. 4, pages 271-272, 1998.						
		AA	KALRA, ET AL., "Interacting Appetite-Regulating Pathways in the Hypothalamic Regulation of Body Weight", Endocrine Reviews, Vol 20. No. 1, pages 68-100, 1999.						
		AB ·	LU, ET AL., "Agouti protein is an antagonist of the melanocyte-stimulating-hormone receptor", Nature, Vol. 371, pages 799-802, 1994.						
		AC	MARSH, ET AL., "Response of melanocortin-4 receptor-deficient mice to anorectic and orexigenic peptides", Nature Genetics, Vol. 21, pages 119-122, 1999.						
		AD	MILTENBERGER, ET AL., "The Role of the agouti Gene in the Yellow Obese Syndrome", J. Nutr, Vol. 127, pages 1902S-1907S, 1997.						
		ΑE	MOUNTJOY, ET AL., "Obesity, Diabetes and Functions for Proopiomelanocrotin-derived Peptides", Molecular and Cellular Endocrinology, Vol. 128, pages 171-177, 1997.						
		AF	NAGLE, ET AL., "The mahogany protein is a receptor involved in suppression of obesity", Nature, Vol. 398, pages 148-151, 1999.						
		AG	ROBERTS, ET AL., "The New Obesity Genes", Nutrition Reviews, Vol. 54, No. 2, pages 41-49, 1996.						
		АН	SHUTTER, ET AL., "Hypothalamic expression of ART, a novel gene related to agouti, is up-regulated in obese and diabetic mutant mice", Genes & Development, Vol. 11, pages 593-602, 1997						
1	/	AI	VON KOCH, ET AL., "Generation of APLP2 KO Mice and Early Postnatal Lethalty in APLP2/APP Double KO Mice", Neurobiology of Aging, Vol. 18, pages 661-669, 1997.						
Al	MF	AJ	YANG, ET AL., "Characterization of Agouti-Related Protein Binding to Melanocortin Receptors", Molecular Endocrinology, Vol. 13, No. 1, pages 148-155, 1999.						

Examiner Signature	/Anne Marie Falk/	Date Considered	06/26/2006

s	ubstitute for form 1449B/PTO				COMPLETE IF KNOWN	
I	NFORMATION	DIS	CLOSURE	Application Number	10/603,249	
6	TATEMENT BY	/ A ID	DI ICANT	Filing Date	June 25, 2003	
ં	IAIEMENIDI	AP	PLICANI	First Named Inventor	Van der Ploeg, Leonardus, H.T.	
		•	•	Group Art Unit	1632	
	(use as many sheets	as n	ecessary)	Examiner Name	To be assigned	
Sheet	4	of	5	Attorney Docket Number	20561YDA	

	NON PATENT LITERATURE DOCUMENTS								
Examine Initials		Include name of the author, title, date, page(s), volume-issue number(s) and place of publication.							
amf	AK	YEN, ET AL., "Obesity, diabetes, and neoplasia in yellow A -mice: ectopic expression of the agouti gene FASEB J., Vol. 8, pages 479-488, 1994.							
	AL	KASK, A., ET AL., "Discovery of a Novel Superpotent and Selective Melanocortin-4 Receptor Antagonist (HS024): Evaluation in Vitro and in Vivo", Endocrinology, Vol. 139, No. 12, pages 5006-5014, 1998.							
	AM	HUSZAR, D., ET AL., "Targeted Disruption of the Melanocortin-4 Receptor Results in Obesity in Mice", Vol. 88, pages 131-141, 1997.							
	AN	CAMPBELL, ET AL., "Totipotency or Multipotentiality of Cultured Cells: Applications and Progress", Theriogenology, Vol. 47, pages 63-72, 1997.							
	AO	BRADLEY, ET AL., "Modifying the Mouse: Design and Desire", Biotechnology, Vol. 10, pages 534-539, 1992.							
	AP	MULLINS, ET Al., "Perspectives Series: Molecular Medicine in Genetically Engineered Animals", Clin Invest., Vol. 97, No. 7, pages 1557-1560, 1996. KUEHN, ET Al., "A potential animal model for Lesch-Nyhan syndrome through introduction of HPRT mutations into mice", Vol. 326, pages 295-298, 1987.							
	AQ								
	AR	JAENISCH, R. "Transgenic Animals", Science, Vol. 240, pages 1468-1474, 1988.							
	AS	SIGMUND, ET AL. "Viewpoint: Are Studies in Genetically Altered Mice Out of Control?", Arterioscler Thromb Vasc Biol., Vol. 20, pages 1425-1429, 2000.							
	AT	MOENS, ET AL. "Defects in heart and lung development in compound heterozygotes for two different targeted mutations at the N-myc locus", Development, Vol. 119, pages 485-499, 1993.							
	AU	JACKS, ET AL., "Effects of an RB mutation in the mouse", Nature, Vol. 359, pages 295-300, 1992.							
	AV	CAPECCHI, ET AL., "The New Mouse Genetics: Altering the Genome by Gene Targeting", Trends in Genetics, Vol. 5, No. 3, pages 70-76, 1989.							
	AW	DONEHOWER, ET Al., "Effects of Genetic Background on Tumorigenesis in p53-Deficient Mice", Molecular Carcinogenesis, Vol. 14, pages 16-22, 1995.							
\bigvee	AX	BIOTECH DICTIONARY, "Hemizygous definition and Hemizygous gene definition", BioTech Resources and Indiana University, 2002.							
AMF	AY	CHEN, ET AL., "Exocrine Gland Dysfunction in MC5-R-Deficient Mice: Evidence for Coordinated Regulation of Exocrine Gland Function by Melanocortin Peptides", Cell, Vol. 91, pages 789-798, 1997.							

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Examiner Signature	/Anne Marie Falk/	Date Considered	06/26/2006

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	10/603,249	
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NON PATENT LITERATURE DOCUMENTS								
Examiner Initials*	Cite No.	Include name of the author, title, date, page(s), volume-issue number(s) and place of publication.						
AMF	AZ	BUTLER, A.A., ET AL., "A Unique Metabolic Syndrome Causes Obesity in the Melanocortin-3 Receptor-Deficient Mouse", Endocrinology, Vol. 141, No. 9, pages 3518-3521, 2000.						
AMF	ВА	CHEN, A.S., ET AL., "Inactivation of the mouse melanocortin-3 receptor results in increased fat mass and reduced lean body mass", Nature Genetics, Vol. 26, pages 97-102, 2000.						
AMF	вв	Schioth, H.B., ET AL., "Evidence Indicating that the TM4, EL2, and TM5 of the Melanocortin 3 Receptor Do Not Participate in Ligand Binding", Biochemical and Biophysical Research Communications, Vol 229, pages 687-692, 1996.						
amf	вс	BERT, C., ET AL., "Production of recombinant rat proopiomelanocortin 1-74 and characterization of its mitogenic action on pituitary lactotrophs", Molecular and Cellular Endocrinology, Vol. 154, pages 111-122, 1999.						
AMF	BD	CHEN, W. ET AL., "A Colormetric Assay for Measuring Activation of G - and G - Coupled Signaling Pathways", Analytical Biochemistry, Vol. 226, pages 349-354, 1995.						
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Examiner Signature	/Anne Marie Falk/	Date Considered	06/26/2006

^{*}Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicam.

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